



COMMERCIAL AND TECHNICAL QUOTATION

| | | | |
|---------------------------------|---|--------------|------------------------|
| PROJECT NAME / REFERENCE | 5000132731 / ONE TIME PURCHASE OF ONE MEDIUM VOLTAGE, 3-PHASE VERTICAL INDUCTION MOTOR FOR THE DEPARTMENT OF DRAINAGE | | |
| CUSTOMER | Jefferson Parish Purchasing Department | PHONE | 504-364-2684 |
| CUSTOMER CONTACT | Donna Reamey | EMAIL | Dreamey@Jeffparish.net |

Dear Donna,

Thank you for this opportunity. We are pleased to offer our technical proposal for the electric motor rehabilitation for the above referenced project.

If you have any questions, or if I can be of assistance in any way, please feel free to contact me.

Sincerely,

Stephen Waite
Vice President-Sales

| REV NO | DATE | PREPARED BY | REV DESCRIPTION |
|--------|-----------|-------------|-------------------|
| 00 | 12/3/2020 | SW | Initial Quotation |

| | | | | | | |
|---|---------------------------------|-------------------------------|------------------------------|-------------------|--------------------|------------------------|
| CONFIDENTIAL | DOCUMENT Form No. MKTFM-0010 | REVISION B FEB / 02 / 2019 | 1st ISSUE AUG / 03 / 2018 | JOB NUMBER N/A | SHEET SCALE N/A | SHEET SIZE LTR |
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1.0 PREFACE

IDEAL ELECTRIC COMPANY (IDEAL) is pleased to provide this Quotation for the herein mentioned equipment, materials and services prepared based on information received from (PURCHASER).

IDEAL requests the PURCHASER to consider any information contained in this document as strictly confidential and shall not be disclosed to third parties without our prior written consent from IDEAL. Such disclosure may have irrevocable impacts on our business.



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2.0 PROPOSAL REQUIREMENTS CHECKLIST

| | |
|--|--|
| Proposal Cover Letter on company letterhead listing what is included in the proposal and the date the vendor visited the site. | IDEAL Electric's Account Manager, Chris Hogg, visited the site on 9/23/2020 with Ben Lepine. |
| Product Data as specified above. | IDEAL Electric is providing a form fit function replacement of the existing IDEAL Electric motor. All performance of the existing motor will be met or exceeded. |
| Shop Drawings as specified above. | IDEAL Electric is providing a form fit function replacement of the existing IDEAL Electric motor. All critical dimension of the existing motor will be met. |
| Weight of each packaged unit. | Estimated weight is 24,500 lbs. |
| Bill of material with all optional features listed. | See section 4.0 below. |
| Any exceptions or clarifications taken to this specification. | See section 5.0 below. |
| Estimated lead time for equipment. | See bid form. |
| Price. | See bid form. |
| Warranty information. | IDEAL is providing an extended warranty valid for five years from the date of delivery. |
| Written Guarantee | IDEAL guarantees the proposed motor will operate as a direct replacement to the motor scheduled for removal. |



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3.0 SCOPE OF SUPPLY

- Form, fit, functional replacement for IDEAL Electric’s induction motor serial number 322440
 - Frame V11320-23
 - 700 Hp
 - 4160 V
 - 22 Pole
 - 1.15 SF
 - Winding RTDs
 - Bearing temperature detector: Provisions for existing instrumentation
 - Space heaters
 - Non-reverse ratchet
 - Stainless steel hardware
 - Power factor correction capacitors
 - Testing as specified
 - Extended IDEAL warranty to five years from delivery
 - Long term storage crating

4.0 SPECIFICATION RECEIVED AND REVIEWED

The following specifications and documents were provided to IDEAL for our review and comment:

5000132731 ONE TIME PURCHASE OF ONE MEDIUM VOLTAGE, 3-PHASE VERTICAL INDUCTION MOTOR FOR THE DEPARTMENT OF DRAINAGE, dated 18-Nov-2020 01:16:55 pm

Any specification received after this quotation date can impact delivery of submittal drawings, delivery of equipment, and pricing.

5.0 COMMENTS AND CLARIFICATIONS

5000132731 ONE TIME PURCHASE OF ONE MEDIUM VOLTAGE, 3-PHASE VERTICAL INDUCTION MOTOR FOR THE DEPARTMENT OF DRAINAGE, dated 18-Nov-2020 01:16:55 pm

- IDEAL has no comments or clarifications

| | | | | | | |
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Q20-0401

REVISION
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DATE ISSUED
DEC /03/ 2020

6.0 PRICING

| Item | Description | Qty | Weeks | Price per unit (US\$) | Total Price (US\$) |
|------|--|-----|--------------|-----------------------|--------------------|
| 1 | 0001 - Material Purchase Only of one (1) new medium voltage, 3-phase vertical induction motor intended for use in a drainage pump drive application, rated for use in the environment in which it will be installed by Parish. | 1 | See Bid Form | See Bid Form | See Bid Form |

| | | | | | | |
|---|---------------------------------|--------------------------------------|-------------------------------------|--------------------------|---------------------------|--------------------------|
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7.0 COMMERCIAL CONDITIONS

IDEAL ELECTRIC is pleased to provide this Quotation to you on the equipment, materials or services subject to the following terms and conditions:

PRICING: Unless otherwise noted, prices quoted herein are firm subject to the following conditions: Pricing is valid for 45 days from the date of this offer.

DELIVERY terms quoted is F.O.B.:
Suburban Pump Station Warehouse
Jefferson Parish Drainage Dept.
4800 Lake Villa Dr.
Metairie, LA 70006

PAYMENTS: PAYMENTS SHALL BE DUE AS FOLLOWS (unless otherwise negotiated):

- 60% with purchase order
- 40% upon notification of readiness to ship

WARRANTY: Ideal Electric Company Standard Warranty shall apply unless otherwise noted. Order acceptance shall be confirmed only by verified order acceptance. Deliveries are contingent on delays beyond our control.

TERMS AND CONDITIONS: UNLESS OTHERWISE NOTED, IDEAL ELECTRIC COMPANY GENERAL TERMS AND CONDITIONS OF SALE APPLY TO THIS QUOTATION, SUPERSEDE ALL CONDITIONS WHICH MAY APPEAR IN ANY CUSTOMER FORMS AND ARE AVAILABLE FOR REVIEW ON OUR WEBSITE.

| | | | | | | |
|---|---------------------------------|-------------------------------|------------------------------|-------------------|--------------------|------------------------|
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INDUCTION MOTOR DATA

Nameplate Data

| Frame | Type | HP | Volts | Phase | Hz | RPM |
|-----------|------|-----|-------|-------|----|-----|
| V11320-23 | IM | 700 | 4160 | 3 | 60 | 322 |

| FL Amps | Temp. Rise | Amb. Temp. | Insul Class | Duty | SF |
|---------|------------|------------|-------------|------|------|
| 112 | 90° C | 40° C | F | Cont | 1.15 |

Performance Data

| % Load | 25 | 50 | 75 | 100 | 115 |
|----------------|-------|-------|-------|-------|-------|
| Current (amps) | 57 | 70 | 88 | 112 | 129 |
| Power Factor % | 36.6 | 56.8 | 66.7 | 70.4 | 70.5 |
| Efficiency % | 85.9 | 91.0 | 92.0 | 91.7 | 91.0 |
| RPM | 325.8 | 324.5 | 323.1 | 321.3 | 319.9 |

With 300 kVA PF correction capacitor

| | | | | | |
|----------------|------|------|------|------|-------|
| Current (amps) | 23.8 | 42.8 | 63.4 | 87.0 | 103.7 |
| Power Factor % | 87.7 | 92.8 | 92.6 | 90.2 | 87.7 |

Induction Motor Parameters

| R1 | X1 | Xm | R2 | X2 | X'd | T'do | X/R | Base Impedance |
|--------|--------|--------|--------|--------|--------|--------|------|----------------|
| 0.0113 | 0.1314 | 1.2740 | 0.0116 | 0.1360 | 0.2540 | 0.3220 | 11.1 | 33.153 ohms |

Starting Data

| | |
|-------------------------------|------|
| Locked Rotor Current (amps) | 347 |
| Locked Rotor Power Factor % | 20 |
| Max. Locked Rotor Time (sec.) | 74.3 |

Torque

| | |
|-------------------|-------|
| Locked Rotor % | 50 |
| Pull-up % | 50 |
| Breakdown % | 160 |
| Full Load (lb-ft) | 11420 |

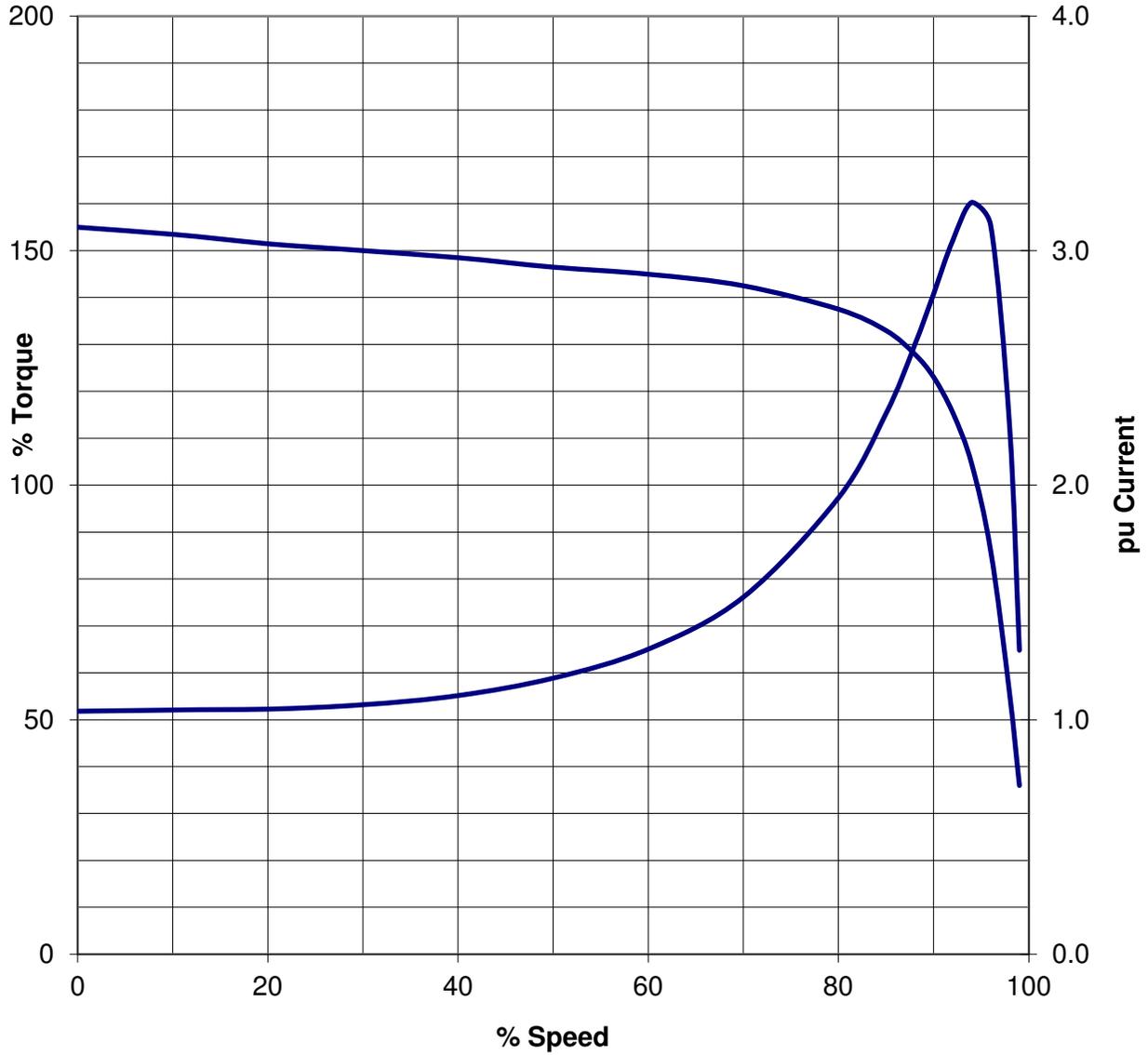
Acceleration Time

| | |
|------------------|-----|
| At Rated Voltage | 4.6 |
|------------------|-----|

Number of Starts

Two successive starts, with the motor initially at ambient temperature or
 One start with the motor initially at rated temperature. Allow 20 minutes between additional starts.

Speed - Torque - Current Curves



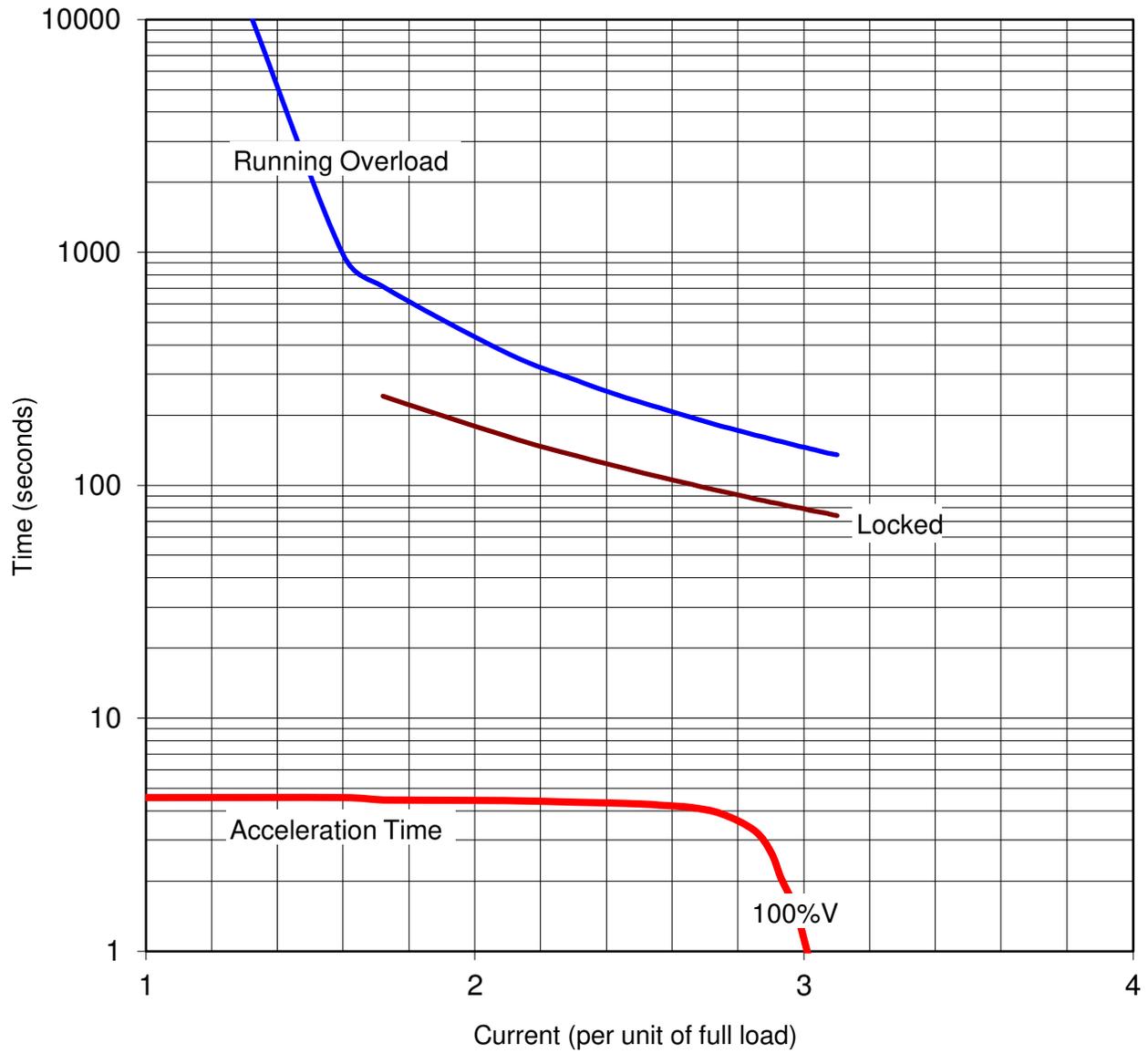
— Torque1 — Current1

HP 700
 SRPM 327
 FL amps 112
 Voltage 4160

Torque1, Current1 at 100 % Voltage



Time Current and Thermal Limit Curves Hot Thermal Limit

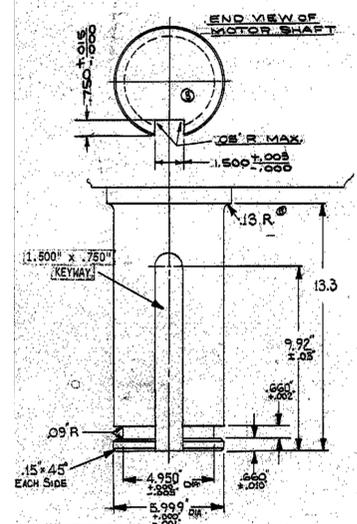
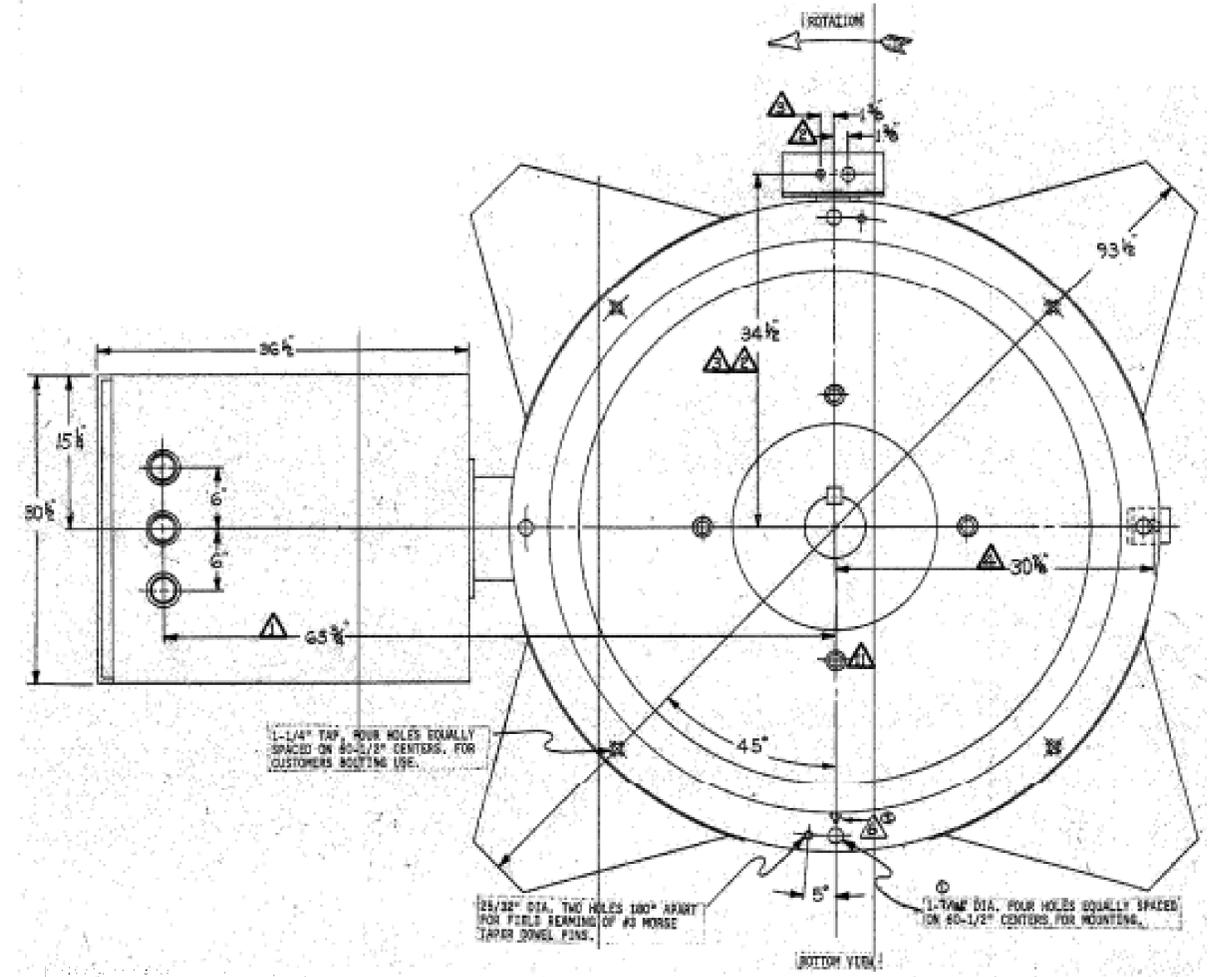
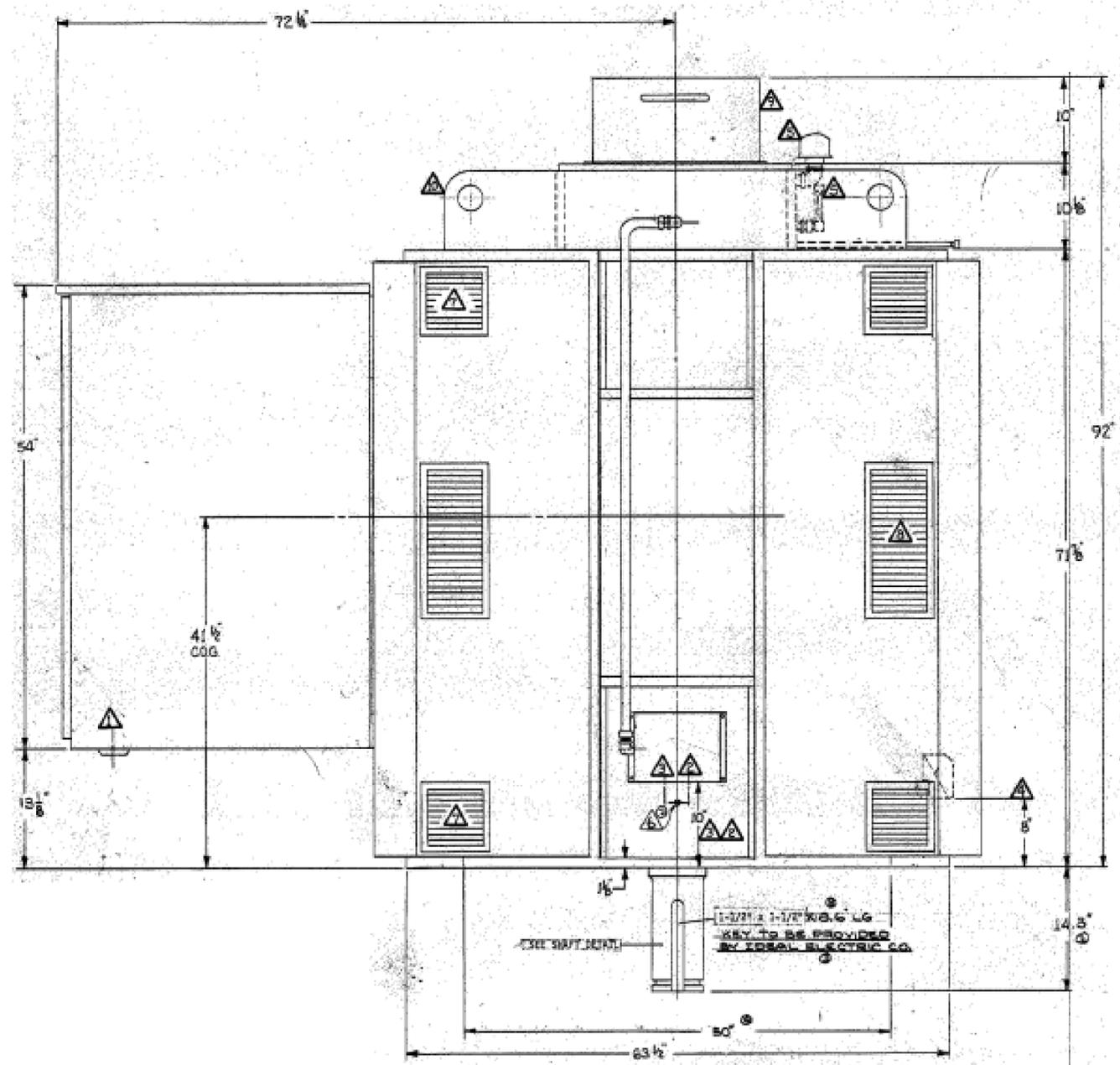


HP 700
SRPM 327
FL amps 112
Voltage 4160

Rev. 0

EE- 10479B

| REV | ECN | ZONE | DESCRIPTION | CHANGED BY | APPROVED BY | DATE |
|-----|-----|------|-------------|------------|-------------|------|
| | | | | | | |



APPROXIMATE WEIGHTS

| | |
|---------------------|---------------|
| LOWER BRACKET | 2000# |
| STATOR PACK | 9400# |
| UPPER BRACKET | 2800# |
| ROTOR WITH SHAFT | 6800# |
| NEMA II COVERS | 1000# |
| TOTAL WEIGHT | 24500# |

PRELIMINARY

| WORKING TOLERANCES UNLESS OTHERWISE SPECIFIED | | | FIRST USED ON | | IDEAL ELECTRIC COMPANY MANUFACTURERS OF CUSTOM MOTORS, GENERATORS & CONTROLS SINCE 1903 |
|---|--------------------------------------|-----------------------|----------------|---------|---|
| MACHINING | FABRICATION | FINISH | IEC ORDER No. | BY DATE | |
| +.01 THRU 2.00 +.015 OVER 2.00 THRU 10.00" +.03 OVER 10.00" ANGLE ±0.5° | +.12 THRU 24.00" +.24 OVER 24.00" | 125 MICRO ✓ INCHES | DR. 12-02-2020 | CH. | |
| ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED | | | APP. | APP. | OUTLINE DRAWING 700 HP, 327 RPM (22P), 4160 V, 60 Hz, WP11, V1 |
| ALL THREADS TO BE CLASS 2 UNIFIED | | | SCALE NTS | WEIGHT | SIZE Ref. DRG NO. Q20-0401R0 SHEET 1 of 1 |
| <small>THIS DRAWING IS THE PROPERTY OF IDEAL ELECTRIC COMPANY. IT IS LOANED SUBJECT TO RETURN UPON DEMAND AND ALL INFORMATION THEREIN IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC AND IS NOT TO BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS.</small> | | | | | |